

## **CLAIMS**

What is claimed is:

1	1. A method of displaying a standard definition television signal on a high definition
2	matrix display, comprising the steps of:
3	receiving the standard definition television signal to provide a received
4	signal;
5	sampling the received signal to provide a sampled digital video signal
6	deinterlacing the sampled digital video signal to provide a progressive
7	line signal;
8	doubling the progressive line signal to provide a predetermined
9	number of active lines of video in a frame; and
10	displaying the predetermined number of active lines of video on the
11	high definition matrix display in a shortened vertical interval.

- The method of claim 1, where the method further comprises the step of storing
  the progressive line signal into a memory before the step of doubling.
- 1 3. The method of claim 1, wherein the step of doubling comprises the step of
- 2 reading each line of the progressive line signal twice from the memory to produce a
- 3 standard 960p signal, wherein the progressive line signal is a 480p signal.
- 1 4. The method of claim 2, wherein the method further comprises the step of reading
- 2 each line of the progressive line signal twice from the memory at a speed fast
- 3 enough to produce the doubling of each line of the progressive line signal in the
- 4 frame and to transmit the frame to the display in a shorter interval than was used to
- 5 write the progressive line signal to the memory.
- 1 5. The method of claim 4, wherein the shorter interval compensates for the
- 2 transmission of black lines transmitted at the top and bottom of the display.

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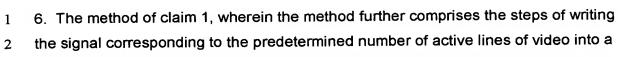
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- memory and reading out the predetermined number of active lines of video from the 3
- memory in a shorter time interval than was used to write the signal corresponding to 4
- the predetermined number of active lines of video into the memory. 5
- 7. The method of claim 6, wherein the signal corresponding to the predetermined 1
- number of active lines is a 960p frame which is read out of the memory and 2
- transmitted to the display in approximately 88% of a vertical period. 3
- 8. A method of displaying a standard definition television signal on a high definition 1 matrix display, comprising the steps of: 2
- receiving the standard definition television signal to provide a received 4 signal;
  - sampling the received signal to provide a sampled digital video signal; deinterlacing the sampled digital video signal to provide a progressive
- 7 line signal;
  - doubling the progressive line signal to provide a predetermined number of active lines of video in a frame;
  - storing the frame containing the predetermined number of active lines in a memory; and
- reading the frame from memory and transmitting it to the high 12 definition matrix display in a shortened vertical interval. 13
- The method of claim 8, wherein the shortened vertical interval is 1 9.
- approximately 88% of a vertical interval. 2
- 10. The method of claim 8, wherein the step of doubling comprises the step of 1
- repeating each line of the progressive line signal to produce a standard 960p signal, 2
- wherein the progressive line signal is a 480p signal. 3

- 1 11. The method of claim 8, wherein step of storing the frame, comprises the step of
- 2 storing a 960p signal into the memory.
- 1 12. The method of claim 8, wherein the shorter interval compensates for the
- 2 transmission of black lines transmitted at the top and bottom of the display.
- 1 13. The method of claim 8, wherein the signal corresponding to the predetermined
- 2 number of active lines is a 960p frame which is read out of the memory and
- 3 transmitted to the display in approximately 88% of a vertical interval.